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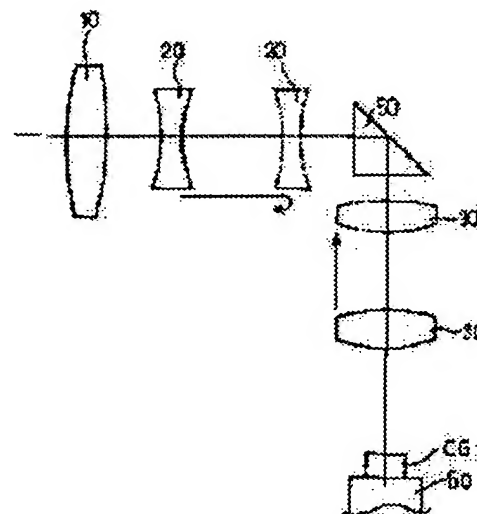
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(54) ZOOM LENS SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To make a camera using a zoom lens small in size, especially, size in the depth direction.

SOLUTION: In this zoom lens system constituted of plural lens groups, a prism 50 folding an optical axis is arranged between the lens groups which are moved in the case of zooming. The system satisfies a following conditional expression (1). (1) $0.8 < Dmin/2y < 1.5$. In this expression, $Dmin = Da + (Lp/Np) + Db$, where Da is the distance obtained when the distance between the lens group just before the prism and the prism is the shortest, Lp is thickness on the optical axis of the prism, Np is the refractive index of the prism, Db is a distance obtained when a distance between the prism and the lens group just behind the prism is the shortest, 2y is the image size of an optical system ($y = f \times tanW$, f is the focal distance of an entire system and W is a half viewing angle).

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